In the United States Patent and Trademark Office
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Appeal Brief

In re the Application of:

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METHOD, SYSTEM, AND PROGRAM FOR PROVIDING
USER LOCATION INFORMATION WITH A PERSONAL
INFORMATION MANAGEMENT PROGRAM

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I.     Real Party in Interest

       The entire right, title and interest in this patent application are assigned to real
party in interest International Business Machines Corporation.


II.     Related Appeals, Interferences, and Judicial Proceedings

       Appellant, Appellant's legal representative, and Assignee are not aware of any
other prior or pending appeals, interferences, and judicial proceedings which may be
related to, directly affect or be directly affected by or have a bearing on the Board's
decision in the pending appeal.


III.    Status of the Claims

       Claims 1-4, 6-8, 11-14, 15, 16, 18, 19, 22-26, 28-30, 33-38, 40, 41, 44-48, 50-52,
55-60, 62, 63, 66-68, and 73-95 are pending and have been rejected.

       Claims 5, 9, 10, 17, 20, 21, 27, 31, 32, 39, 42, 43, 49, 53, 54, 61, 64, 65, 69-72 are
canceled.

       The final rejection dated October 6, 2006 ("Final Office Action") of the claims is
being appealed for all pending claims 1-4, 6-8, 11-14, 15, 16, 18, 19, 22-26, 28-30, 33-
38, 40, 41, 44-48, 50-52, 55-60, 62, 63, 66-68, and 73-95.


IV.    Status of Amendments

       No amendments to the claims were filed subsequent to the Final Office Action.


V.     Summary of the Claimed Subject Matter

       A.     Independent Claim 1

       Independent claim 1 is directed to a method for providing user location
information for a personal information management program.  With respect to the
preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the
personal information manager (PIM) client 20 and server 24 to gather and utilize position
information concerning the wireless device 2.  (Specification, pg. 12, lines 6-10).

       The claim requires generating position coordinates of a wireless device and time
information indicating times when the position coordinates were generated, wherein a

user is associated with the wireless device. With respect to this claim requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26) Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Spec., pg. 15, lines 21-24) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

The claim further requires processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires generating information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM client 20 or PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

B.    Independent Claim 18

Independent method claim 18 is directed to generating a calendar for a personal information management program. With respect to the preamble, the Specification discloses a Personal Information Manager (PIM) client 20 that gathers and presents PIM information, such as calendaring and scheduling information.  (Spec., pg. 6, line 18 to pg. 7, line 3, FIG. 1).   Further, the PIM server 24 generates calendar information for requested time periods.  (Spec., pg. 16, lines 9-22)

The first limitation of the claim requires receiving selection of a time interval. With respect to this limitation, the Specification discloses the PIM server 24 receiving a request for PIM information for a time interval for a user.  (Spec., pg. 16, lines 1-2, FIG. 7, block 350)

The second limitation of the claim requires that for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device.  With respect to this limitation, the Specification discloses that the PIM server 24 queries the PIM database 22 for filtered position records 60 (at block 354) and scheduled event records 52 (at block 356) of the user within the specified time interval. (Spec., pg. 16, lines 2-4, FIG. 7).

The third limitation of the claim requires processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval.  With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6.  (Spec., pg. 14, line 13-19). The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records.  (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The fourth limitation of the claim requires generating information on the predefined activity within the selected time interval.   With respect to this limitation, the Specification discloses that the PIM server 24 generates (at block 358) for each calendar

time period, e.g., every half-hour, hour, etc., information on the scheduled event description 74 and the location/activity description 106 (FIGs. 3a, d) in the located scheduled event 52 and filtered position 58 records, respectively, that fall within the calendar time periods that span the specified time interval.  (Spec., pg. 16, lines 4-8, FIG. 7).

       The fifth limitation of the claim requires displaying information on the predefined activity of the user and the selected time interval.  With respect to this limitation, the Specification generating pages including generated information for calendar time periods within the specified time interval including information on user scheduled events and actual location/activity.  (Spec., pg. 16, lines 9-22, FIGs. 7, 8, 9a, 9b).

       C.    <u>Independent Claim 23</u>

       Independent claim 23 is directed to a system adapted to communicate with a wireless device for providing user location information for a personal information management program.  With respect to the preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the personal information manager (PIM) client 20 and server 24 to gather and utilize position information concerning the wireless device 2.  (Spec., pg. 12, lines 6-10).

       The first limitation requires means for generating position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device.  With respect to the functional requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates.  The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate.  (Spec., pg. 12, lines 23-26) Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Specification, pg. 13, lines 4-6) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

Thus, with respect to this first limitation, the structure disclosed in the specification corresponding to the claimed means comprises the PIM client 20 and the PIM server 24. The Specification discloses that the PIM client 20 and PIM server may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

The second limitation requires means for processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that structure corresponding to the claimed function comprises the PIM client 20 or PIM server 24 that is disclosed as performing the claimed filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The third limitation requires means for generating information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses that the structure corresponding to the claimed function comprises the PIM client 20 or PIM server 24 performing that generate a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

D.    Dependent Claim 24

Claim 24 depends from claim 23 and recites the following limitations in "means" language:

means for receiving the generated position coordinates and time information from the wireless device; and

means for storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period and locations and associated time periods where the user was present.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1) that receives position records 54 from the PIM client 20 that the PIM server 24 includes in records 54 in user records 50 of the database. (Spec., pg. 12, line 26 to pg. 13, line 4; pg. 15, lines 21-24). The Specification discloses that the PIM server 24 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

     E.    <u>Dependent Claim 25</u>

Claim 25 depends from claim 23 and recites the following limitations in "means" language:

means for transmitting receiving from the wireless device the determined locations and associated time periods; and

means for storing the determined locations and time periods in a database.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1) that receives position records 54 from the PIM client 20 that the PIM server 24 includes in records 54 in user records 50 of the database. (Spec., pg. 12, line 26 to pg. 13, line 4; pg. 15, lines 21-24). The Specification discloses that the PIM server 24 may be implemented using software, firmware, hardware or any combination thereof.

     F.    <u>Dependent Claim 26</u>

Claim 26 depends from claim 23 and recites the following limitations in "means" language:

means for providing a plurality of location boundaries defining multiple location coordinates;

       means for providing, for each location boundary, a location description including information describing the location boundary;

       means for determining, for each generated position coordinate, whether the position coordinate is included in one of the provided location boundaries; and

       means for processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.

The structure disclosed in the specification corresponding to the claimed means limitations comprises the PIM client 20 and PIM server 24 (Spec., pg. 13, line 13 to pg. 14, line 7, FIG. 6). The Specification discloses that the PIM server 24 and PIM client 20 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

      G.    Dependent Claim 30
Claim 30 depends from claim 23 and recites the following limitations in "means" language:

       means for receiving from the wireless device the position coordinates, associated time information, and associated location description; and

       means for processing the position coordinates and time information to determine location boundaries including the position coordinates, and wherein the information generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1) that receives position records 54 from the PIM client 20 that the PIM server 24 includes in records 54 in user records 50 of the database.  (Spec., pg. 12, line 26 to pg. 13, line 4; pg. 15, lines 21-24).

Further, the structure disclosed in the Specification corresponding to the claimed means for processing the position coordinates comprises the PIM client 20 and PIM server 24 (Spec., pg. 12, lines 19-26; pg. 13, line 12 to pg. 14, line 7, FIG. 6).

The Specification discloses that the PIM server 24 and PIM client 20 may be implemented using software, firmware, hardware or any combination thereof.  (Spec., pg. 17, lines 20 to pg. 18, line 11).

H.    Dependent Claim 33

Claim 33 depends from claim 23 and recites the following limitations in "means" language:

> means for receiving a request for information on the user for a selected time interval;
>
> means for determining one predefined activity occurring during  the selected time interval; and
>
> means for generating information on the predefined activity during the selected time interval.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1).  (Spec., pg. 15, line 25 to pg. 16, line 22, FIG. 7). The Specification discloses that the PIM server 24 may be implemented using software, firmware, hardware or any combination thereof.  (Spec., pg. 17, lines 20 to pg. 18, line 11).

I.    Independent Claim 40

Independent system claim 40 is directed to a system for generating a calendar for a personal information management program. With respect to the preamble, the Specification discloses a Personal Information Manager (PIM) client 20 that gathers and

presents PIM information, such as calendaring and scheduling information. (Spec., pg. 6, line 18 to pg. 7, line 3, FIG. 1). Further, the PIM server 24 generates calendar information for requested time periods. (Spec., pg. 15, lines 12-22).

The first limitation of the claim recites means for receiving selection of a time interval. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding to the claimed means of the first limitation by receiving a request for PIM information for a time interval for a user. (Spec., pg. 15, lines 12-18, FIG. 7).

The second limitation of the claim recites means for determining, for the selected time interval, position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding to the claimed means of the second limitation by querying the PIM database 22 for filtered position records 60 (at block 354) and scheduled event records 52 (at block 356) of the user within the specified time interval. (Spec., pg. 15, lines 16-19, FIG. 7).

The third limitation of the claim requires means for processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 comprises the structure corresponding to the claimed means of the third limitation by performing the filtering operations and algorithms of FIG. 6. (Specification, pg. 12, line 27 to pg. 13, 6). The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Specification, pg. 14, line 17 to pg. 15, line 7, FIG. 6, block 320).

The fourth limitation of the claim requires means for generating information on the predefined activity within the selected time interval. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding

to the claimed means of the fourth limitation by generating (at block 358) for each calendar time period, e.g., every half-hour, hour, etc., information on the scheduled event description 74 and the location/activity description 106 (FIGs. 3a, d) in the located scheduled event 52 and filtered position 58 records, respectively, that fall within the calendar time periods that span the specified time interval. (Spec., pg. 15, lines 18-22, FIG. 7).

The fifth limitation of the claim requires means for displaying information on the predefined activity of the user and the selected time interval. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding to the claimed means of the fifth limitation that generates pages including generated information for calendar time periods within the specified time interval including information on user scheduled events and actual location/activity. (Spec., pg. 15, line 23 to pg. 17, line 3, FIGs. 7, 8, 9a, 9b).

The Specification discloses that the PIM client 20 and PIM server may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 8-25)


J.     Independent Claim 45

Independent claim 45 is directed to an article of manufacture comprising a computer readable storage medium including code for providing user location information for a personal information management program. With respect to the preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the personal information manager (PIM) client 20 and server 24 to gather and utilize position information concerning the wireless device 2. (Specification, pg. 12, lines 6-10). The Specification further discloses that the PIM server and client may be implemented as an article manufacture comprising code or logic implemented in hardware or a computer readable medium, among other mediums. (Specification, pg. 17, line 21 to pg. 18, line 11).

The claim requires generating position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this claim requirement, the

Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26) Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Spec., pg. 15, lines 21-24) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

The claim further requires processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires generating information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM client 20 or PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

K.     Independent Claim 62

Independent method claim 18 is directed to an article of manufacture for generating a calendar for a personal information management program. With respect to the preamble, the Specification discloses a Personal Information Manager (PIM) client 20 that gathers and presents PIM information, such as calendaring and scheduling information.  (Spec., pg. 6, line 18 to pg. 7, line 3, FIG. 1).   Further, the PIM server 24 generates calendar information for requested time periods.  (Spec., pg. 16, lines 9-22) The Specification further discloses that the PIM server and client may be implemented as an article manufacture comprising code or logic implemented in hardware or a computer readable medium, among other mediums.  (Specification, pg. 17, line 21 to pg. 18, line 11).

The first limitation of the claim requires receiving selection of a time interval. With respect to this limitation, the Specification discloses the PIM server 24 receiving a request for PIM information for a time interval for a user.  (Spec., pg. 16, lines 1-2, FIG. 7, block 350)

The second limitation of the claim requires that for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device.  With respect to this limitation, the Specification discloses that the PIM server 24 queries the PIM database 22 for filtered position records 60 (at block 354) and scheduled event records 52 (at block 356) of the user within the specified time interval. (Spec., pg. 16, lines 2-4, FIG. 7).

The third limitation of the claim requires processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval.  With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6.  (Spec., pg. 14, line 13-19). The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change

in distance per unit of time, determine a predefined activity associated with the position records.  (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The fourth limitation of the claim requires generating information on the predefined activity within the selected time interval.   With respect to this limitation, the Specification discloses that the PIM server 24 generates (at block 358) for each calendar time period, e.g., every half-hour, hour, etc., information on the scheduled event description 74 and the location/activity description 106 (FIGs. 3a, d) in the located scheduled event 52 and filtered position 58 records, respectively, that fall within the calendar time periods that span the specified time interval.  (Spec., pg. 16, lines 4-8, FIG. 7).

The fifth limitation of the claim requires displaying information on the predefined activity of the user and the selected time interval.  With respect to this limitation, the Specification generating pages including generated information for calendar time periods within the specified time interval including information on user scheduled events and actual location/activity.  (Spec., pg. 16, lines 9-22, FIGs. 7, 8, 9a, 9b).

L.     Independent Claim 67

Independent claim 45 is directed to a computer readable medium for providing user location information for a personal information management program.  With respect to the preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the personal information manager (PIM) client 20 and server 24 to gather and utilize position information concerning the wireless device 2.  (Specification, pg. 12, lines 6-10). The Specification further discloses that user records 50 in a PIM database 22 include measured position records 54 and filtered position records 60.   (Spec., FIGs. 2, 3b, 3d, pg. 8, lines 9-16, pg. 9, lines 1-10, pg. 10, line 16 to pg. 11, line 7).

The claim requires position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device.  With respect to this claim requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates.  The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position

coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26) Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Spec., pg. 15, lines 21-24) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

The claim further requires a predefined activity occurring during an activity time period determined by processing position coordinates and time information to determine whether a change in a series of position coordinates at times indicates the predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM client 20 or PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

M.    Dependent Claims 80 and 86

Claims 80 and 86 depend from claims 23 and 40, respectively, and recites the following limitations in "means" language:

means for determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

The structure disclosed in the specification corresponding to the claimed means for determining locations based on the position coordinates comprises the PIM client 20 and PIM server 24 (Spec., pg. 13, line 13 to pg. 14, line 7, FIG. 6). The Specification discloses that the PIM server 24 and PIM client 20 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

N.     Independent Claim 94

Independent claim 94 is directed to a system.

The system includes a wireless device and a server. FIG. 1 discloses a wireless device 2 and a server 4. (Spec., pg. 5, lines 9-21).

The claim further requires code executed by the wireless device to generate position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this claim requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26)

The claim further requires code executed by the server to process the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM server

24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires that the code executed by the server generates information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

The Specification discloses that the PIM client and server may be implemented as software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 21-25) The PIM programs comprise computer programs. (Spec., pg. 6, line 18 to pg. 8, line 8)

VI.  Grounds of Rejection to Be Reviewed on Appeal

A concise statement listing each ground of rejection presented for review is as follows:

A.     Claims 1-3, 8, 11-16, 18, 19, 22-25, 30, 33-38, 40, 41, 44-47, 52, 55-60, 62, 63, 66, 67, 73-77, 79-84, 86-91, and 93-95 are rejected as anticipated (35 U.S.C. §102(e)) by Blants (U.S. Patent No. 6,732,080).

B.     Claims 4, 6, 7, 26, 28, 29, 48, 50, 51, 68, 78, 85, and 92 are rejected as obvious (35 U.S.C. §103(a)) over Blants in view of Contractor (U.S. Patent No. 6,847,824).

VII.   Argument

    A.   Rejection Under 35 U.S.C. §102 as Anticipated by Blants

        1.   Claims 1, 12, 13, 14, 16, 18, 19, 22, 23, 34-36, 38, 40, 41, 44, 45, 56, 57, 58, 60, 62, 63, 66, 67, 94

Independent claims 1, 18, 23, 40, 45, 62, 67, and 94 require that for a personal information management program (PIM) processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval and generating information on the predefined activity within the selected time interval. Claim 67 requires a computer readable medium having a predefined activity occurring during an activity time period that is determined by processing the position coordinates to determine whether a change in a series of position coordinates at times indicates the predefined activity during which the position coordinates and the time information were generated.

The Examiner cited FIG. 4, block 204 of FIG. 5, col. 2, lines 16-52, col. 3, lines 31-37, col. 13, lines 47 to col. 14, line 11 and col. 14, line 27 to col. 15, line 33 of Blants as disclosing the claim requirements of processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval. (Final Office Action, pgs. 3, 4) Applicants traverse.

The cited col. 2 mentions that scheduled services are rescheduled when a conflict in the user's schedule between different services as to time and/or location, which is dependent on a position stored in the calendar, is detected. The location signal of the mobile terminal may be used to provide the scheduled services or alerts. The scheduling and calendaring server, responsive to the actual location of the mobile terminal or a location, signals when a conflict exists as a result of the mobile terminal's current location or a location involving a scheduled calendar service. Thus, the cited col. 2 discusses using the mobile terminal's position to determine whether there is a conflict between a scheduled calendar event and the actual location of the mobile terminal.

Nowhere does this cited col. 2 anywhere disclose the claim requirements of processing the position coordinates and time information to determine whether a change in a series of position coordinates indicates a predefined activity for a selected time interval. Instead, the cited col. 2 discusses determining whether there is a scheduling conflict based on the mobile terminal's current position and the user's calendar schedule. This does not disclose or concern the claim requirement of processing the position coordinates and time information for the wireless device to determine whether a change in a series of position coordinates of the wireless device indicates a predefined activity for the user.

In fact, the cited col. 2 only looks at one position coordinate, the current mobile terminal's location and the location of a scheduled service. This type of cited examination of a scheduled service and discrete current location nowhere discloses or concerns the claim requirement of determining whether a series of position coordinates and time information for the wireless device indicates a predefined activity of the wireless device user during a selected interval.

The other cited sections of Blants are similarly deficient. The cited col. 3 mentions that the calendaring and scheduling server maintains the calendar and updates the calendar as the location of events in the calendar changes, such as scheduled user services which are provided to the user by at least one service provider. This cited col. 3 concerns updating a calendar schedule, but nowhere discloses or concerns the claim requirement of processing the position coordinates and time information of the wireless device to determine whether a change in a series of position coordinates indicates a predefined activity for the user.

The cited cols. 13-14 mention that actualized events can affect planned events when a conflict is detected. Rescheduling occurs if a conflict exists with the same service or a different service. The cited cols. 14-15 further discusses detecting when a conflict exists and rescheduling the scheduled service so that the conflict does not exist. To accomplish this, the calendaring and scheduling server stores the current location and then checks if a conflict exists. The cited cols. 14-15 further discuss how to discern a conflict. For instance, if an airline flight were scheduled for a departure time which would require the user to drive at a speed above the speed limit to cover the distance

between the airport and the user's current location, the software would indicate a conflict. A determination of the conflict can be made by computing the distance between the scheduled service and the current location and dividing by the maximum possible speed to determine if it is physically impossible to arrive at the airport.   Further, the software may suggest a new service for the user as a substitute service if there is a conflict.

Again, the cited cols. 13-15 concern detecting conflicts based on a current position of the mobile terminal and scheduled services, and the time to travel the distance between the current and scheduled service location.  Again, nowhere do the cited cols. 13-15 disclose or mention the claim requirement of processing the position coordinates and time information to determine whether a change in a series of position coordinates indicates a predefined activity for the user for a selected time period.

Moreover, although the cited cols. 14-15 discusses measuring a distance from the current location to the scheduled service location to determine if the user may make the scheduled service, this cited col. 14 still nowhere discloses determining whether a change in a series of position coordinates of the wireless device indicates a predefined activity. Yet further, the cited cols. 14-15 are concerned with determining whether a user has enough time to travel to a scheduled event.  This does not disclose or concern whether a change in series of position coordinates of the wireless device indicates a predefined activity of the user of the wireless device as claimed.

The Examiner cited the same above discussed sections of Blants with respect to the claim requirement of generating information on the predefined activity within the selected time interval.  (Final Office Action, pgs. 3-4).  If the cited Blants does not disclose processing position coordinates do determine a change in a series of position coordinates indicating a predefined activity for the reasons discussed above, then consequentially the cited Blants does not disclose generating information on the predefined activity.  Nowhere does the cited Blants disclose generating information on a change in a series of position coordinates of the wireless device location that indicates a predefined activity.

Accordingly, Applicants request reversal of the rejection of claims 1, 18, 23, 40, 45, 62, 67, and 94 because the cited Blants does not disclose all the claim requirements.

Applicants further request reversal of the rejection of dependent claims 12, 13, 14, 16, 19, 22, 34-36, 38, 41, 44, 56, 57, 58, 60, 63, and 66 because these claims depend from one of independent base claims 1, 18, 23, 40, 45, 62, 67, and 94, which are patentable over the cited art for the reasons discussed above.

2. Claims 2, 24, and 46

Claims 2, 24, and 46 are patentable over the cited art because they depend from claims 1, 23, and 45, respectively. Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 2, 24, and 46 additionally require receiving from the wireless device the generated position coordinates and time information and storing the generated position coordinates and time information in a database.

The Examiner cited col. 13, line 59 to col. 14, line 11 of Blants as disclosing the claim requirement of storing the generated position coordinates and time information. (Final Office Action, pgs. 4-5) Applicants traverse.

The cited cols. 13-14 mentions that selection of an event can be based upon the user profile stored in the calendaring server database. The stored profile identifies one or more user service providers, and information such as the when services are preferred to be scheduled, pricing, and other user desired information. The second actualized event represents a circumstance in which a scheduling conflict is detected but the service could not be rescheduled.

Although the cited cols. 13-14 discuss how the calendar database stores user profile information on service provider preferences, the cited cols. 13-14 nowhere disclose or mention the claim requirement of storing the generated position coordinates and time information received from a wireless device.

Accordingly, Applicants request the reversal of the rejection of claims 2, 24, and 46 because the cited Blants does not disclose the additional requirements of these claims.

3. <u>Claims 3, 25, and 47</u>

Claims 3, 25, and 47 are patentable over the cited art because they depend from claims 1, 23, and 45, respectively. Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 3, 25, and 47 additionally require that the position coordinates and time information are generated at the wireless device, that the wireless device processes the position coordinates and time information to determine locations and associated time periods where the user was present, receiving from the wireless device the determined locations and associated time periods, and storing the determined locations and time periods in a database.

The Examiner cited col. 13, line 59 to col. 14, line 11 of Blants as disclosing the claim requirement of storing the determined locations, received from the wireless device. (Final Office Action, pgs. 4-5) Applicants traverse.

The cited cols. 13-14 mentions that selection of an event can be based upon the user profile stored in the calendaring server database. The stored profile identifies one or more user service providers, and information such as the when services are preferred to be scheduled, pricing, and other user desired information. The second actualized event represents a circumstance in which a scheduling conflict is detected but the service could not be rescheduled.

Although the cited cols. 13-14 discuss how the calendar database stores user profile information on service provider preferences, the cited cols. 13-14 nowhere disclose or mention the claim requirement of storing the determined locations received from the wireless device.

Accordingly, Applicants request the reversal of the rejection of claims 3, 25, and 47 because the cited Blants does not disclose the additional requirements of these claims.

### 4. Claims 8, 30, and 52

Claims 8, 30, and 52 are patentable over the cited art because they depend from claims 1, 23, and 45, respectively. Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 8, 30, and 52 additionally require that the position coordinates and time information are generated by multiple wireless devices, wherein each wireless device is associated with one user, receiving position coordinates and time information from the multiple wireless devices; and storing the position coordinates and time information in a database with information associating each position coordinate and time information with one user, wherein the position coordinates and time information are processed for the multiple wireless devices to determine predefined activities for the wireless devices.

The Examiner cited col. 13, line 59 to col. 14, line 11 of Blants as disclosing the claim requirement of storing the position coordinates and time information in a database associated with one user. (Final Office Action, pg. 5) Applicants traverse.

The cited cols. 13-14 mentions that selection of an event can be based upon the user profile stored in the calendaring server database. The stored profile identifies one or more user service providers, and information such as the when services are preferred to be scheduled, pricing, and other user desired information. The second actualized event represents a circumstance in which a scheduling conflict is detected but the service could not be rescheduled.

Applicants traverse, for the reasons discussed above, because the cited Blants discusses detecting conflicts based on a current position of the mobile terminal and scheduled services, and the time to travel the distance between the current and scheduled service location. As discussed, nowhere do the cited cols. 13-14 disclose or mention the claim requirement of processing the position coordinates and time information for a wireless device to determine whether a change in a series of position coordinates indicates a predefined activity for the user for a selected time period.

Accordingly, Applicants request the reversal of the rejection of claims 8, 30, and 52 because the cited Blants does not disclose the additional requirements of these claims.

5.   Claims 11, 15, 33, 37, 55, and 59

Claims 11, 33, and 55 are patentable over the cited art because they depend from claims 1, 23, and 45, respectively.  Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 11, 33, and 55 additionally require receiving a request for information on the user for a selected time interval; determining one predefined activity occurring during the selected time interval; and generating information on the predefined activity during the selected time interval.

The Examiner cited col. 11, lines 34-45 of Blants as teaching the claim requirement of determining one predefined activity occurring during the selected time interval (Final Office Action, pg. 6), per the base claims, the predefined activity indicates a change in a series of position coordinates at times.

The cited col. 11 mentions displays regarding the received scheduled calendar including the inputting of user selections and data needed to complete the obtaining of information and user services.   Although the cited col. 11 discusses information on user services, nowhere is there any disclosure of determining a predefined activity indicating a change in a series of position coordinates of the wireless device and generating information on such predefined activity.

Claims 15, 37, and 59 require generating information on the scheduled events within the time interval to enable the initiator to display information on the scheduled events along with the predefined activity occurring during the selected time interval. Although the cited col. 11 discusses information on user services, nowhere is there any disclosure of displaying information on scheduled events with the predefined activity occurring during a selected time interval, where the predefined activity indicates a change in a series of position coordinates at times and generating information on such predefined activity.

Accordingly, Applicants request the reversal of the rejection of claims 11, 15, 33, 37, 55, and 59 because the cited Blants does not disclose the additional requirements of these claims.

6.  Claims 73, 74, 79, 80, 81, 86, 87, 88, 93, and 95

Claims 73, 79, 80, 86, 87, 93, and 95 are patentable over the cited art because they depend from independent claims 1, 18, 23, 40, 45, 62, and 94, respectively, which are patentable over the cited art for the reasons discussed above.  Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 73, 79, 80, 86, 87, 93, and 95 additionally require determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

The Examiner cited col. 13, line 47 to col. 14, line 11 and col. 14, line 27 6o col. 15, line 33 of Blants as disclosing the claim requirement of generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.  (Final Office Action, pg. 9)   Applicants traverse.

As discussed, the cited cols. 13-15 concern detecting conflicts based on a current position of the mobile terminal and scheduled services, and the time to travel the distance between the current and scheduled service location.  Nowhere do the cited cols. 13-15 anywhere disclose generating information on a predefined activity, determined from a change in a series of position coordinates indicates, and the location where an activity comprising a determined change in series of position coordinates occurred.  Instead, the cited cols. 13-15 discuss comparing a location of a wireless monitor and scheduled services to determine if there is a conflict, not generating information on a predefined activity comprising a determined change in a series of position coordinates of the wireless device, and the locations of those coordinates.

Accordingly, claims 73, 79, 80, 86, 87, 93, and 95 provide additional grounds of patentability over the cited art because the additional requirements of these claims are not taught or suggested in the cited Blants.

Claims 74, 81, and 88 are patentable over the cited art because they depend from claims 73, 80, and 87, respectively.

Accordingly, Applicants request the reversal of the rejection of claims 73, 74, 79, 80, 81, 86, 87, 88, 93, and 95 because the cited Blants does not disclose the additional requirements of these claims.

### 7. Claims 75, 82, and 89

Claims 75, 82, and 89 are patentable over the cited art because they depend from claims 73, 80, and 87, respectively, which are patentable over the cited art for the reasons discussed above. Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 75, 82, and 89 additionally require determining the locations of the wireless device during the activity time period comprises determining the position coordinates at a first and last geographical locations of the wireless device at a first and last time periods of the activity time period.

The Examiner cited FIG. 3 of Blants as disclosing the requirements of these claims. (Final Office Action, pgs. 9-10) Applicants traverse.

The cited FIG. 3 is a display of a calendar showing scheduled events, including an "event location" that indicates a position, x, y, z, of the scheduled event. (Blants, col. 12, lines 41-55; col. 13, lines 7-15).

Nowhere does the cited or discussed FIG. 3 anywhere disclose determining a location of a wireless device by determining position coordinates at a first and last geographical locations of the wireless device at first and last time periods of the activity. Instead, the cited FIG. 3 shows the event location of scheduled events for the calendar user, not how to determine a location of a wireless device during an activity period by determining position coordinates of a wireless device at different locations and at first and last times of an activity.

Accordingly, Applicants request the reversal of the rejection of claims 75, 82, and 89 because the cited Blants does not disclose the additional requirements of these claims.

8.  Claims 76, 83, and 90

Claims 76, 83, and 90 are patentable over the cited art because they depend from claims 73, 80, and 87, respectively, which are patentable over the cited art for the reasons discussed above.  Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 76, 83, and 90 additionally require determining the predefined activity comprises determining a rate of change in distance per unit of time of the position coordinates during the activity time period.

The Examiner cited FIG. 4, block 204 of FIG. 5, col. 2, lines 16-52, col. 3, lines 31-37, col. 13, lines 47 to col. 14, line 11 and col. 14, line 27 to col. 15, line 33 of Blants as disclosing the additional requirements of these claims.  (Final Office Action, pg. 10)

As discussed, these cited sections of Blants discusses using the mobile terminal's position to determine whether there is a conflict between a scheduled calendar rand the actual location of the mobile terminal.  As discussed, the cited cols. 14-15 mentions that a determination of the conflict can be made by computing the distance between the scheduled service and the current location and dividing by the maximum possible speed to determine if it is physically impossible to arrive at the airport.   Further, the software may suggest a new service for the user as a substitute service if there is a conflict.

Nowhere does the cited Blants disclose determining a rate of change in distance per unit of time of the position coordinates of the wireless device.  Instead, the cited Blants discusses how to determine if the user of the mobile terminal has sufficient time to travel the distance between a scheduled service and the current location.  The cited examining the distance between a scheduled service and the current location does not disclose determining a rate of change with respect to position coordinates of the wireless device.

Accordingly, Applicants request the reversal of the rejection of claims 76, 83, and 90 because the cited Blants does not disclose the additional requirements of these claims.

9. Claims 77, 84, and 91

Claims 77, 84, and 91 are patentable over the cited art because they depend from independent claims 1, 23, and 45, respectively, which are patentable over the cited art for the reasons discussed above. Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

Claims 77, 84, and 91 additionally require that the predefined activity is a member of a set of predefined activities comprising at least one of driving, walking, running, bicycle riding, and flying in an airplane.

The Examiner cited FIG. 3 of Blants as disclosing the requirements of these claims. (Final Office Action, pg. 10) Applicants traverse.

The cited FIG. 3 is a display of a calendar showing scheduled events, including an "event location" that indicates a position, x, y, z, of the scheduled event, and an "event type" indicating a type of the events. (Blants, col. 12, lines 41-55; col. 13, lines 7-15).

The cited FIG. 3 shows scheduled activities driving, flying, etc. However, the Examiner has not cited any part of Blants that discloses that the events shown in FIG. 3 are predefined activities determined from a change in a series of position coordinates of the wireless device events. Instead, the events shown in FIG. 3 are scheduled events or services. (Blants, col. 13, lines 13-27)

Accordingly, Applicants request the reversal of the rejection of claims 76, 84, and 91 because the cited Blants does not disclose the additional requirements of these claims.

B. Rejection Under 35 U.S.C. §103 as Obvious Over Blants in View of Contractor

1. Claims 4, 6, 7, 26, 28, 29, 48, 50, 51, and 68

Claim 4, 26, 48, and 68 are patentable over the cited art because they depend from claims 1, 23, 45, and 67, respectively. Moreover, these claims provide additional grounds of patentability over the cited art for the following reasons.

The Examiner cited col. 14, lines 53-66 and col. 15, line 47 to col. 16, line 38 of Blants as teaching the requirement of claims 4, 26, 48, and 68 of processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes

multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period. (Final Office Action, pg. 13)  Applicants traverse.

The cited col. 14 mentions determining when a conflict exists as a function of the current or scheduled location of the user and a time and place of a scheduled service.  The determination of the conflict can be made by computing the distance between the scheduled service and the current location.  The cited cols. 15-16 discusses automatic scheduling of a flight by checking the user's profile to identify a preferred airline and then book the flight automatically.  Scheduling of other arrangements depends on the new location of the user resultant from the completion of the scheduled service, such as booking a taxi from the airport.

Nowhere do the cited cols. 14, 15, and 16 anywhere tech or suggest that position coordinates of a location of wireless device are processed to determine locations, wherein one of the determined locations includes multiple position coordinates of the wireless device where the user was located.   Instead, the cited cols. 14, 15, and 16 discuss how to determine a conflict between a scheduled service and actual location, and how to book arrangements by considering the user profile and locations.  There is no disclosure of processing a series of the wireless device's actual position coordinates to determine locations, wherein the location has multiple position coordinates where the wireless device was located.

The Examiner did not cite Contractor for the above discussed limitations.

Thus, claims 4, 26, 48, and 68 are patentable over the cited art because the cited combination of Blants and Contractor do not teach or suggest all the claim requirements.

Claims 6, 7, 28, 29, 50, and 51 are patentable over the cited art because they depend from one of claims 4, 26, 48, and 68, which are patentable over the cited art for the reasons discussed above.

Accordingly, Applicants request the reversal of the rejection of claims 4, 6, 7, 26, 28, 29, 48, 50, 51, and 68 because the cited combination of Blants and Contractor do not disclose the additional requirements of these claims.

    2.  <u>Claims 78, 85, and 92</u>

Claims 78, 85, and 92 are patentable over the cited art because they depend from claims 4, 26, and 48, respectively, which are patentable over the cited art for the reasons discussed above. Moreover, these claims also provide additional grounds of patentability over the cited art for the following reasons.

These claims additionally require that the operations of processing the position coordinates and associated time periods to determine the predefined activity is performed for ranges of position coordinates not determined to be included in one of the provided location boundaries.

The Examiner cited the above discussed col. 14, lines 53-66 and col. 15, line 47 to col. 16, line 38 of Blants as teaching the requirement of these claims, cited with respect to claim 4. (Final Office Action, pg. 13) Applicants traverse.

The cited col. 14 mentions determining when a conflict exists as a function of the current or scheduled location of the user and a time and place of a scheduled service. The determination of the conflict can be made by computing the distance between the scheduled service and the current location. The cited cols. 15-16 discusses automatic scheduling of a flight by checking the user's profile to identify a preferred airline and then book the flight automatically. Scheduling of other arrangements depends on the new location of the user resultant from the completion of the scheduled service, such as booking a taxi from the airport.

Nowhere do the cited cols. 14, 15, and 16 anywhere tech or suggest that position coordinates are considered for determining whether a change in a series of position coordinates of the wireless device is a predefined activity for ranges of position coordinates not determined in a location boundary. The Examiner ahs not cited any art that teaches or suggests that if a range of position coordinates of the wireless device do not fall within a provided location boundary, then a predefined activity is determined from the change in the series of position coordinates in the range.

Accordingly, Applicants request the reversal of the rejection of claims 78, 85, and 92 because the cited combination of Blants and Contractor do not disclose the additional requirements of these claims.

VIII. Conclusion

      Each of the rejections set forth in the Final Office Action are improper and should be reversed.


Respectfully submitted,


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IX.  Claims Appendix

1.  (Previously Presented) A method for providing user location information for a personal information management program, comprising:

generating position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;

processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated; and

generating information on the determined predefined activity for the activity time period.

2.  (Previously Presented) The method of claim 1, wherein the position coordinates and time information are generated at the wireless device, further comprising:

receiving from the wireless device the generated position coordinates and time information to a server; and

storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period  and locations and associated time periods where the user was present.

3.  (Previously Presented) The method of claim 1, wherein the position coordinates and time information are generated at the wireless device, wherein the wireless device processes the position coordinates and time information to determine locations and associated time periods where the user was present, further comprising:

receiving from the wireless device the determined locations and associated time periods;

storing the determined locations and time periods in a database.

4.　　(Previously Presented) The method of claim 1, further comprising:

providing a plurality of location boundaries defining multiple location coordinates;

for each location boundary, providing a location description including information describing the location boundary;

for each generated position coordinate, determining whether the position coordinate is included in one of the provided location boundaries; and

processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.

5.　　(Canceled)

6.　　(Original) The method of claim 4, wherein at least one location boundary and associated location description is provided by:

receiving location boundary and location description information from a transmitter.

7.　　(Previously Presented) The method of claim 6, further comprising:

associating, with the wireless device, the location description information with the generated position coordinates within the location boundary received from the transmitter; and

receiving from the wireless device the position coordinates, associated time information, and associated location description wherein the position coordinates and time information are processed to determine location boundaries including the position coordinates, and wherein the information generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

8.      (Previously Presented) The method of claim 1, wherein position coordinates and time information are generated by multiple wireless devices, wherein each wireless device is associated with one user, further comprising:

receiving position coordinates and time information from the multiple wireless devices; and

storing the position coordinates and time information in a database with information associating each position coordinate and time information with one user, wherein the position coordinates and time information are processed for the multiple wireless devices to determine predefined activities for the wireless devices.

9.      (Canceled)

10.     (Canceled)

11.     (Previously Presented) The method of claim 1, further comprising:

receiving a request for information on the user for a selected time interval;

determining one predefined activity occurring during the selected time interval; and

generating information on the predefined activity during the selected time interval.

12.     (Original) The method of claim 11, further comprising:

transmitting the generated information to an initiator of the request for information to enable the initiator to display the location information and time periods where the user of the wireless device was located for the time interval.

13.     (Original) The method of claim 12, wherein the initiator requesting the information comprises a program installed on a computer, and wherein the generated information is transmitted over the Internet to the computer.

14.     (Original) The method of claim 12, wherein the initiator requesting the information is the wireless device, and wherein the wireless device displays the generated information for the requested time interval.

15.     (Previously Presented) The method of claim 12, further comprising:
determining scheduled events for the user within the time interval; and
generating information on the scheduled events within the time interval to enable the initiator to display information on the scheduled events along with the predefined activity occurring during the selected time interval.

16.     (Original) The method of claim 1, wherein each position coordinate is expressed as an x, y, z coordinate.

17.     (Canceled)

18.     (Previously Presented) A method for generating a calendar for a personal information management program, comprising:
receiving selection of a time interval;
for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;
processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval;
generating information on the predefined activity within the selected time interval; and

displaying information on the predefined activity of the user and the selected time interval.

19.    (Previously Presented) The method of claim 18, further comprising:

determining scheduled events for the user within the selected time interval; and

displaying information on the scheduled events within the selected time interval adjacent to the displayed information on the determined predefined activity where the user was located for the selected time interval.

20.    (Canceled)

21.    (Canceled)

22.    (Original) The method of claim 18, wherein the information is displayed in a calendar Graphical User Interface (GUI).

23.    (Previously Presented) A system adapted to communicate with a wireless device and for providing user location information for a personal information management program, comprising:

means for generating position coordinates of the wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;

means for processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated; and

means for generating information on the determined predefined activity for the activity time period.

24.    (Previously Presented) The system of claim 23, wherein the position coordinates and time information are generated at the wireless device, further comprising:

means for receiving the generated position coordinates and time information from the wireless device; and

means for storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period and locations and associated time periods where the user was present.

25.     (Previously Presented) The system of claim 23, wherein the position coordinates and time information are generated at the wireless device, wherein the wireless device includes the means for processing the position coordinates and time information to determine locations and associated time periods where the user was present, further comprising:

means for transmitting receiving from the wireless device the determined locations and associated time periods; and

means for storing the determined locations and time periods in a database.

26.     (Previously Presented) The system of claim 23, further comprising:

means for providing a plurality of location boundaries defining multiple location coordinates;

means for providing, for each location boundary, a location description including information describing the location boundary;

means for determining, for each generated position coordinate, whether the position coordinate is included in one of the provided location boundaries; and

means for processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein

the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.

27.    (Canceled)

28.    (Original) The system of claim 26, wherein the means for providing the location boundaries and associated location descriptions performs:

receiving location boundary and location description information from a transmitter.

29.    (Previously Presented) The system of claim 28, wherein the wireless device associates the location description information with the generated position coordinates within the location boundary received from the transmitter; and

means for receiving from the wireless device the position coordinates, associated time information, and associated location description; and
means for processing the position coordinates and time information to determine location boundaries including the position coordinates, and wherein the information generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

30.    (Previously Presented) The system of claim 23, wherein position coordinates and time information are generated by multiple wireless devices, wherein each wireless device is associated with one user, further comprising:

means for receiving position coordinates and time information from the multiple wireless devices; and

means for storing the position coordinates and time information in a database with information associating each position coordinate and time information with one user, wherein the position coordinates and time information are processed for the multiple wireless devices to determine predefined activities for the wireless devices.

31.    (Canceled)

32.     (Canceled)

33.     (Previously Presented) The system of claim 23, further comprising:

means for receiving a request for information on the user for a selected time interval;

means for determining one predefined activity occurring during the selected time interval; and

means for generating information on the predefined activity during the selected time interval.

34.     (Original) The system of claim 33, further comprising:

means for transmitting the generated information to an initiator of the request for information to enable the initiator to display the location information and time periods where the user of the wireless device was located for the time interval.

35.     (Original) The system of claim 34, wherein the initiator requesting the information comprises a program installed on a computer, and wherein the generated information is transmitted over the Internet to the computer.

36.     (Original) The system of claim 34, wherein the initiator requesting the information is the wireless device, and wherein the wireless device displays the generated information for the requested time interval.

37.     (Previously Presented) The system of claim 34, further comprising:

means for determining scheduled events for the user within the time interval; and

means for generating information on the scheduled events within the time interval to enable the initiator to display information on the scheduled events along with the predefined activity occurring during the selected time interval.

38.     (Original) The system of claim 23, wherein each position coordinate is expressed as an x, y, z coordinate.

39.    (Canceled)

40.    (Previously Presented) A system for generating a calendar for a personal information management program, comprising:

means for receiving selection of a time interval;

means for determining, for the selected time interval, position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;

means for processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval;

means for generating information on the predefined activity within the selected time interval; and

means for displaying information on the predefined activity of the user and the selected time interval.

41.    (Previously Presented) The system of claim 40, further comprising:

means for determining scheduled events for the user within the selected time interval; and

means for displaying information on the scheduled events within the time interval adjacent to the displayed information on the determined predefined activity where the user was located for the selected time interval.

42.    (Canceled)

43.    (Canceled)

44.    (Original) The system of claim 40, wherein the information is displayed in a calendar Graphical User Interface (GUI).

45.    (Previously Presented) An article of manufacture comprising a computer readable storage medium including code executed for providing user location information for a personal information management program and adapted to communicate with a wireless device associated with a user, wherein the executed code is capable of causing operations to be performed, the operations comprising:

generating position coordinates of the wireless device and time information indicating times when the position coordinates were generated;

processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated; and

generating information on the determined predefined activity for the activity time period.


46.    (Previously Presented) The article of manufacture of claim 45, wherein the position coordinates and time information are generated at the wireless device, wherein the operations further comprise:

receiving the generated position coordinates and time information; and

storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period and locations and associated time periods where the user was present.

47.    (Previously Presented) The article of manufacture of claim 45, wherein the position coordinates and time information are generated at the wireless device, wherein the wireless device processes the position coordinates and time information to determine locations and associated time periods where the user was present, wherein the operations further comprise:

receiving from the wireless device the determined locations and associated time periods;

storing the determined locations and time periods in a database.

48.    (Previously Presented) The article of manufacture of claim 45, wherein the operations further comprise:

providing a plurality of location boundaries defining multiple location coordinates;

for each location boundary, providing a location description including information describing the location boundary;

for each generated position coordinate, determining whether the position coordinate is included in one of the provided location boundaries; and

processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.


49.    (Canceled)


50.    (Original) The article of manufacture of claim 48, wherein at least one location boundary and associated location description is provided by:

receiving location boundary and location description information from a transmitter.


51.    (Previously Presented) The article of manufacture of claim 50, wherein the operations further comprise:

associating, with the wireless device, the location description information with the generated position coordinates within the location boundary received from the transmitter; and

receiving from the wireless device, the position coordinates, associated time information, and associated location description, wherein the position coordinates and time information are processed to determine location boundaries including the position coordinates, and wherein the information generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

52.     (Previously Presented) The article of manufacture of claim 45, wherein position coordinates and time information are generated by multiple wireless devices, wherein each wireless device is associated with one user, wherein the operations further comprise:

receiving position coordinates and time information from the multiple wireless devices; and

storing the position coordinates and time information in a database with information associating each position coordinate and time information with one user, wherein the position coordinates and time information are processed for the multiple wireless devices to determine predefined activities for the wireless devices.

53.     (Canceled)
54.     (Canceled)

55.     (Previously Presented) The article of manufacture of claim 45, wherein the operations further comprise:

receiving a request for information on the user for a selected time interval;

determining one predefined activity occurring during the selected time interval; and

generating information on the predefined activity during the selected time interval.

56.     (Previously Presented) The article of manufacture of claim 55, wherein the operations further comprise:

transmitting the generated information to an initiator of the request for information to enable the initiator to display the location information and time periods where the user of the wireless device was located for the time interval.

57. (Original) The article of manufacture of claim 56, wherein the initiator requesting the information comprises a program installed on a computer, and wherein the generated information is transmitted over the Internet to the computer.

58. (Original) The article of manufacture of claim 56, wherein the initiator requesting the information is the wireless device, and wherein the wireless device displays the generated information for the requested time interval.

59. (Previously Presented) The article of manufacture of claim 56, wherein the operations further comprise:

determining scheduled events for the user within the time interval; and

generating information on the scheduled events within the time interval to enable the initiator to display information on the scheduled events along with the predefined activity occurring during the selected time interval.

60. (Original) The article of manufacture of claim 45, wherein each position coordinate is expressed as an x, y, z coordinate.

61. (Canceled)

62. (Previously Presented) An article of manufacture comprising a computer readable storage medium including code executed for generating a calendar for a personal information management program and adapted to communicate with a wireless device associated with a user, wherein the executed code is capable of causing operations to be performed, the operations comprising:

receiving selection of a time interval;

for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated;

processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval;

generating information on the predefined activity within the selected time interval; and

displaying information on the predefined activity of the user and the selected time interval.

63. (Previously Presented) The article of manufacture of claim 62, wherein the operations further comprise:

determining scheduled events for the user within the selected time interval; and

displaying information on the scheduled events within the time interval adjacent to the displayed information on the determined predefined activity where the user was located for the selected time interval.

64. (Canceled)

65. (Canceled)

66. (Original) The article of manufacture of claim 62, wherein the information is displayed in a calendar Graphical User Interface (GUI).

67. (Previously Presented) A computer readable medium for providing user location information for a personal information management program of a user at a wireless device, wherein the computer readable medium includes at least one computer readable data structure comprising:

position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device;

a predefined activity of the user occurring during an activity time period determined by processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates the predefined activity during which the position coordinates and the time information were generated; and

information on the determined predefined activity for the activity time period.

68.    (Previously Presented) The computer readable medium of claim 67, further comprising:

a plurality of location boundaries defining multiple location coordinates, wherein each location boundary includes a location description including information describing the location boundary, wherein for each generated position coordinate, a determination is made as to whether the position coordinate is included in one of the provided location boundaries;

information on locations and associated time periods determined by processing the position coordinates and the time information, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.

69.    (Canceled)

70.    (Canceled)

71.    (Canceled)

72.    (Canceled)


73.    (Previously Presented) The method of claim 1, further comprising:

determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.


74.    (Previously Presented)  The method of claim 73, further comprising:

generating a record associating the determined locations with the determined predefined activity.


75.    (Previously Presented)  The method of claim 73, wherein determining the locations of the wireless device during the activity time period comprises determining the position coordinates at a first and last geographical locations of the wireless device at a first and last time periods of the activity time period.


76.    (Previously Presented) The method of claim 73, wherein determining the predefined activity comprises determining a rate of change in distance per unit of time of the position coordinates during the activity time period.


77.    (Previously Presented)  The method of claim 1, wherein the predefined activity is a member of a set of predefined activities comprising at least one of driving, walking, running, bicycle riding, and flying in an airplane.


78.    (Previously Presented)  The method of claim 4, wherein the operations of processing the position coordinates and associated time periods to determine the predefined activity is performed for ranges of position coordinates not determined to be included in one of the provided location boundaries.

79.     (Previously Presented) The method of claim 18, further comprising:

determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

80.     (Previously Presented) The system of claim 23, further comprising:

means for determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

81.     (Previously Presented)  The system of claim 80, further comprising:

means for generating a record associating the determined locations with the determined predefined activity.

82.     (Previously Presented)  The system of claim 80, wherein determining the locations of the wireless device during the activity time period comprises determining the position coordinates at a first and last geographical locations of the wireless device at a first and last time periods of the activity time period.

83.     (Previously Presented) The system of claim 80, wherein determining the predefined activity comprises determining a rate of change in distance per unit of time of the position coordinates during the activity time period.

84.     (Previously Presented)  The system of claim 23, wherein the predefined activity is a member of a set of predefined activities comprising at least one of driving, walking, running, bicycle riding, and flying in an airplane.

85.     (Previously Presented)  The system of claim 26, wherein the operations of processing the position coordinates and associated time periods to determine the

predefined activity is performed for ranges of position coordinates not determined to be included in one of the provided location boundaries.

86.    (Previously Presented) The system of claim 40, further comprising:
means for determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

87.    (Previously Presented) The article of manufacture of claim 45, wherein the operations further comprise:
determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

88.    (Previously Presented) The article of manufacture of claim 87, wherein the operations further comprise:
generating a record associating the determined locations with the determined predefined activity.

89.    (Previously Presented)  The article of manufacture of claim 87, wherein determining the locations of the wireless device during the activity time period comprises determining the position coordinates at a first and last geographical locations of the wireless device at a first and last time periods of the activity time period.

90.    (Previously Presented) The article of manufacture of claim 87, wherein determining the predefined activity comprises determining a rate of change in distance per unit of time of the position coordinates during the activity time period.

91.    (Previously Presented)  The article of manufacture of claim 45, wherein the predefined activity is a member of a set of predefined activities comprising at least one of driving, walking, running, bicycle riding, and flying in an airplane.

92.    (Previously Presented)  The article of manufacture of claim 48, wherein the operations of processing the position coordinates and associated time periods to determine the predefined activity is performed for ranges of position coordinates not determined to be included in one of the provided location boundaries.

93.    (Previously Presented) The article of manufacture of claim 62, further comprising:
        determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

94.    (Previously Presented) A system comprising:
a wireless device associated with a user;
a server;
code executed by the wireless device that is adapted to generate position coordinates of the wireless device and time information indicating times when the position coordinates were generated;
        code executed by the server that is adapted to:
        process the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated; and
        generate information on the determined predefined activity for the activity time period.

95.    (Previously Presented)  The system of claim 94, wherein the code executed by the server is further adapted to determine locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

X.     <u>Evidence Appendix</u>

None

XI.     <u>Related Proceedings Appendix</u>

None